

Fig.1.

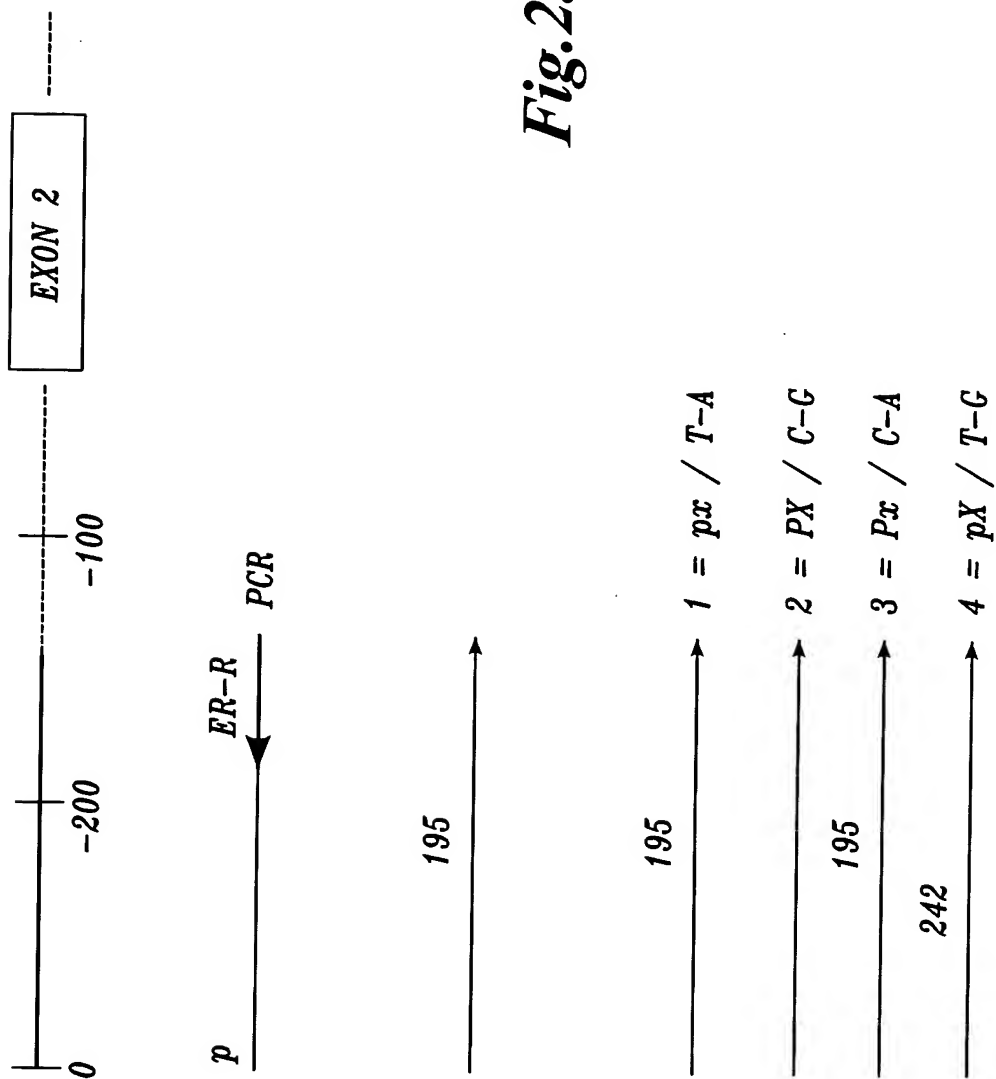


Fig.2.

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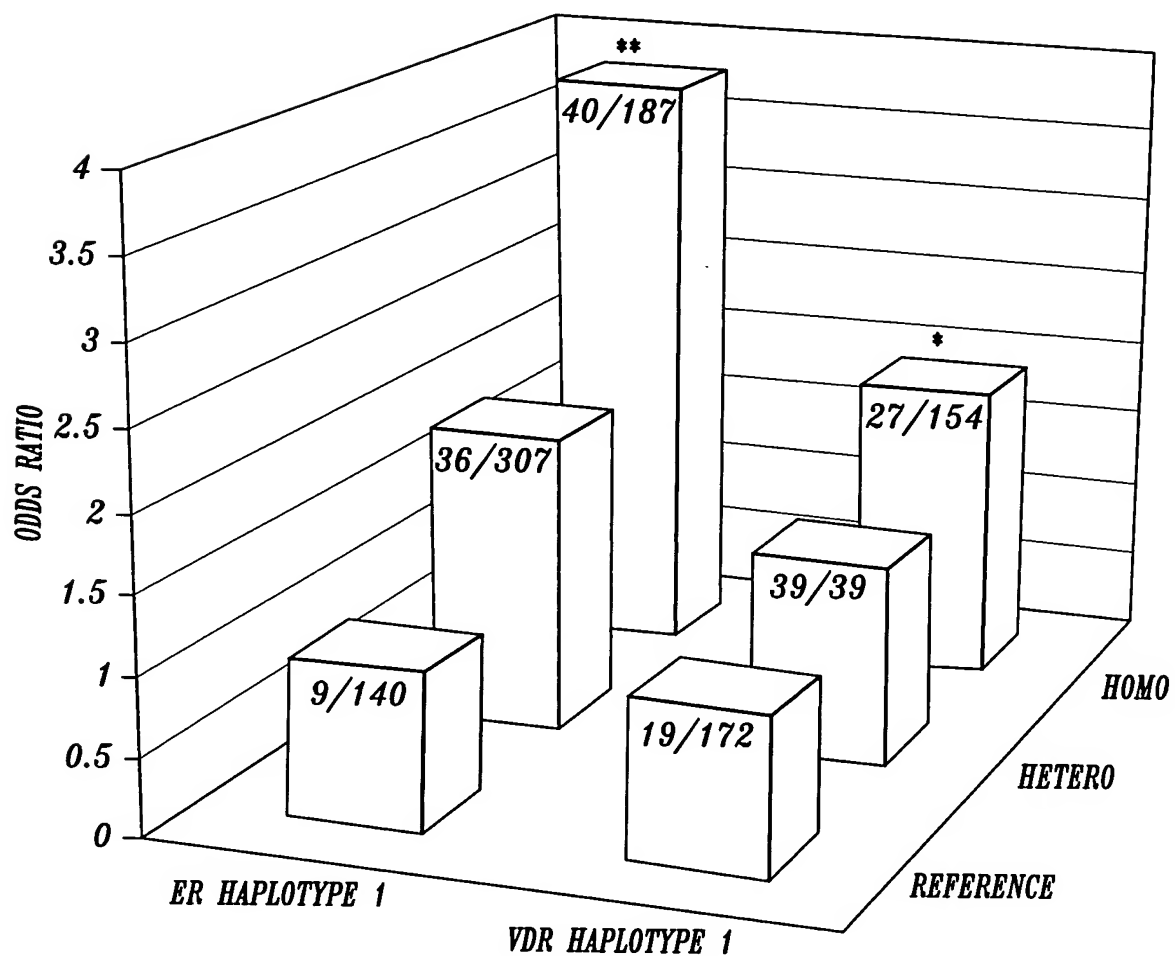


Fig.3.

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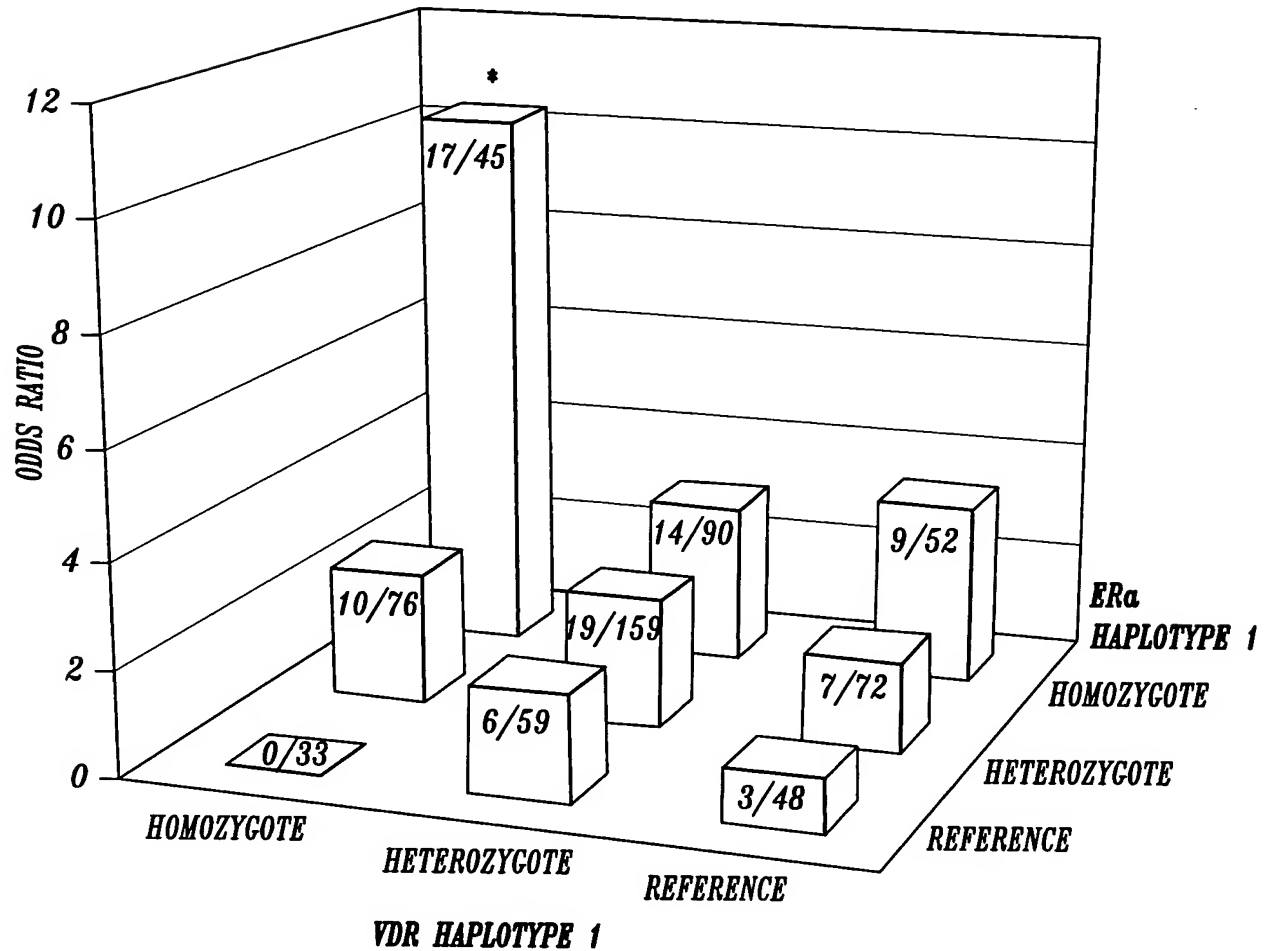


Fig. 4.

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(forward primer):

ACAGTATTTTCAAATACATATTCAAGTTATAAAACTGATATCCAGGTTATGTGGCAATGA

CGTAAAAATTGAATTGTTATTTTTTGACACATGTTCTGTGTGTCCATCAGTTCATCTGAGT

Pvu II RFLP (397 bp in front of exon2)

TCCAAATGTCCCAGC (T/C) GTTTTATGCTTTGTCTCTGTTTCCAGAGACCCTGAGTGTGGTC

Xba I RFLP (351 bp in front of exon2)

T (A/G) GAGTTGGGATGAGCATTGGTCTCTAATGGTTCGAAATAATTGTATATTCCCTGCAAAA

ACATTAGTCTATTAGAAACCAGCTAATTTCATTTTGTCTATTTTATAGGTAACATATTCTGGT

(reverse primer):

GCAGGTAGTATGTTTTTAAACAAGTTTGCAATAAACAATTTCCTCAAGGTTAATAATAG

GCAACACCTTTTGCTGCAACAGACGGCAAGAGGTAATGAAAGAT

Fig. 5.

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<<< Exon 7 >>>

VDR1 (forward primer)

GGACGACATGTCCTGGACCTGTGGCAACCAAGACTACAAGTA

CCGCGTCAGTGACGTGACCAAAGGtatgcctagactccacct

cctgggggagtcctttttcagctcccagattctggc

forward primer in intron 7)

tccacccgtcctgggggtttggctccaatcagatacatgggag

ggagttagggaccaacagggagagaagggcgaggggtcagacc

catgggggttggaggggtgggtgggagggtcctcagc

Exon 8 >>>

tctgcccgcagtacctggccattgtctctcacagccGGACAC

AGCCTGGAGCTGATTGAGCCCCTCATCAAGTTCCAGGTGGGA

CTGAAGAAGCTGAACTTGCATGAGGAGGAGCATGTCCTGCTC

ATGGCCATCTGCATCGTCTCCCCAGgtatgggggccaggcagg

gaggagctcagggacctggggagcgggagagtatgaaggaca

aagacctgctgagggccagctgggcaacctgaagggagacgt

agcaaaaggagacacagataaggaaatacctactttgctggt

ttgcagagcccctgtggtgtgtggacgctgaggtgcccctca

ctgcccttagctctgccttgcagagtgtgcagggcgattcgta

gggggggattctgaggaactagataagcagggttcc

Fig. 6A.

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Bsm I RFLP (in intron 8)

tggggccacagacaggcctgc (a/g) cattcccaataactcag
gctctgctcttgcggtgaactgggctcaacattcctgttattt
gaggtttcttgcgggcagggtacaaaactttggagcctgaga
gatgggttctgcctatatagtttacctgattgattttggaggc
aatgtgcagtgacccttgacctcttccgctgggttagagggtga
gaagagggagaaaaggccgaagaggaagtattgtgaccttg
gggacatgatgtcggtgatgagggtccaaagaggggcgggcct
gcctcagcctgtgctagtggcctgtgcccagggatgctttcc
tggactggagggtcaaggaatggagatgggctcctctacccc
tgcccagccagccttctctcattcattcatccacttagcaac
aatttatttgagcacctattaggtaccaggcactatgctaggt
actgggggttcagcagcaaatgggacacagggtcctctcccat
gaagcttaggagggaacattaaacaaatgttattttaattatt
aattcctaacaagggaagagttttaaaaataaagtaagtgat
gctacagaagggtagaatagaaggagggaagctgacgtggtc
tgggctacagaggtagagtgttgccaggaatggccttttgga
ggaagaccttttaagctgttatccaaaggatcagtaagagtc
tggcaaagatagcagagcagagttccaagcagaggggagcaca
gatgtgaaggctgggtggccagagagcatggcgcatcgggacg
ctgaggggatggacagagcatggacagggagcaaggccaggca
gggacaggggccagggtgcgccccatggaaggacctaggtctgga

Fig. 6B.

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tcctaaatgcacggagaagtcactggagggctttggggccag
gcagtggtatcacccggtcagcagtcatagaggggtggcctag
ggggtgctgccgttgagtgtctgtgtgggtggggggt

Apa I RFLP (in intron 8)

ggtgggattgagcagtgagg(g/t)gcccagctgagagctcc
tgtgccttcttctctat

Exon 9 >>

Taq I RFLP (in exon 9)

ccccgtgcccacagATCGTCCTGGGGTGCAGGACGCCGCGCT
GAT(T/C)GAGGCCATCCAGGACCGCCTGTCCAACACACTGC
AGACGTACATCCGCTGCCGCCACCCGCCCCCGGGCAGCCACC
TGCTCTATGCCAAGATGATCCAGAAGCTAGCCGACCTGCGCA
GCCTCAATGAGGAGCACTCCAAGCAGTACCGCTGCCTCTCCT
TCCAGCCTGAGTGCAGCATGAAGCTA

Fig. 6C.

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3' -UTR >>>

ACGCCCCTTGCTGCTCGAAGTGTTTGGCAATGAGATCTCCtga
ctaggacagcctgtggcggtgcctgggtggggctgctcctcc
agggccacgtgccaggcccggggctggcggctactcagcagc
cctcctcaccctgtctgggggttcagccctcctctgccacct
cccctatccaccagccattctctctcctgtccaacctaac
ccctttcctgcgggcttttccccggt

(reverse primer):

cccttgagacctcagccatgaggagttgctggttggttgaca
aagaaaccaagtgggggagagaggcagaggctggaggcagg
gccttgcccagagatgcctccaccgctgcctaagtggctgct
gactgatgttgagggaacagacaggagaaatgcatccattcc
tcagggacagagacacctgcacctccccccactgcaggcccc
gcttggtccagcgct...

Fig. 6D.